CENWS-OD-TS **10 January 2003**
Dredged Material Management Office

MEMORANDUM FOR RECORD

SUBJECT: DETERMINATION OF THE SUITABILITY OF DREDGED MATERIAL TESTED UNDER LCREF EVALUATION PROCEDURES FOR WEYERHAEUASER/MT. COFFIN CHANNEL DREDGING PROJECT (2002- 00105 DAIS # MTCOF–A–F-187) WITH PROPOSED IN-WATER DISPOSAL IN THE COLUMBIA RIVER FLOWLANE.

1. Weyerhaeuser Company proposes to maintenance dredge the Mt. Coffin Channel in the Columbia River, which provides access to its facility at Longview Washington. The amount proposed for dredging during the initial dredging cycle is 200,000 cubic yards, with 100,000 cubic yards removed annually during the remaining nine years of the permit. The following assessment concerns the initial dredging volume. The following summary reflects the LCREF agencies (Corps of Engineers, Department of Ecology, and the Environmental Protection Agency) consensus decision on the acceptability of the sampling plan and all relevant test data to make a determination of suitability for the disposal of the material at an in-water disposal site.

2. The ranking for this area is "low-moderate" based on the guidance found in the Lower Columbia River Dredged Material Evaluation Framework (1998) and a review of recent project testing data in the vicinity of the project.

3. A sampling and analysis plan was completed for this project and approved by the DMMP agencies on 19 September 2002. Sampling for this project was performed on 30 September 2002.

SAP approval date	19 September 2002
Sampling date	30 September 2002
Data Report submittal date	December 2002
Recency determination dates	30 September 2008

4. Samples were taken from nine locations and composited for three surface analyses. The sampling and compositing plan is presented in Table 1. Due to the relatively rapid shoaling in the area, the lack of contaminant sources in the channel, and the recent dredging history, a Ponar grab sampler was used to collect the surface samples.

5. There were no exceedances of 2001 DMMP screening levels for the standard list of chemicals of concern. All detection limits were below screening levels. In addition, all samples were below the exclusionary guidelines in the LCREF for grain-size and Total Volatile solids. That data is presented in Table 2.

6. In summary, the DMMP-approved sampling and analysis plan was followed, and quality assurance, quality control guidelines specified by the DMMP were followed. The data gathered were deemed sufficient and acceptable for regulatory decision-making under the DMMP program. Based on the results of the chemical testing, the consensus determination of the DMMP agencies is that 200,000 cubic yards of material from the Weyerhaeuser Mt. Coffin Channel dredging project are suitable for open-water disposal.

7. This memorandum documents the suitability of proposed dredged sediments for disposal at a open water disposal site or for beneficial use. It does not constitute final agency approval of the project. A dredging plan for this project must be completed as part of the final project approval process. A final decision will be made after full consideration of agency and public input, and after an alternatives analysis is done under section 404 (b) 1 of the Clean Water Act.

Table 1. Sampling and Compositing Plan

DMMU	Sample Station	Sample Interval
DMMU - 1	1A	Surface Grab
	1B	Surface Grab
	1C	Surface Grab
DMMU - 2	2A	Surface Grab
	2B	Surface Grab
	2C	Surface Grab
DMMU - 3	3A	Surface Grab
	3B	Surface Grab
	3C	Surface Grab

Table 2. Summary of chemical testing results

				DMMU ID:	1		2		3	
				Rank:	LM		LM		LM	
	Units				Conc.		Conc		Conc	
Total Solids	%									
Total Volatile Solids	%				1.2		0.4		0.4	
Total Organic Carbon	%				0.3		0.0		0.0	
Total Ammonia	mg/kg				11.2		0.2		0.4	
Total Sulfides	mg/kg				1		0		0	
Gravel	%						2.2		0.8	
Sand	%				56.6		96.3		94.5	
Silt	%				38.4		1.5		4.7	
Clay	%				5.0		-			
Fines (percent silt + clay)	%				43.4		1.5		4.7	
preferred reference match:	%									
BTs exceeded:					no		no		no	
LCREF Determination:					P		P		P	
DMMU Volume:	cy				67,000		67,000		67,000	